

Karlsruher PDE-Seminar

Stability and scattering for the quartic KdV equation

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The generalized KdV equation with quartic nonlinearity admits soliton solutions. In this joint work with J. Marzuola we establish stability of the family of solitons, and scattering at the soliton, in the scaling space. The key is a detailed study of the linearized equation. I will report on previous results and on the new arguments.

Termin: Donnerstag, 8.7.2010, 17:30 Uhr

Ort: 1C-03, Allianz-Gebäude 5.20

Gastgeber: Die Dozenten des Schwerpunktes Partielle Differentialgleichungen